

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2005/006004

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D491/04 C07D498/04 C07D513/04 C07D515/04 A61K31/436
A61P9/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, CHEM ABS Data, BEILSTEIN Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 693 283 A (NISSAN CHEMICAL INDUSTRIES, LIMITED) 24 January 1996 (1996-01-24) page 25, line 44 - line 54; claim 1; examples 1,5-9,16,19-24,47,51,55,58	1-55
X	EP 0 488 107 A (E.R. SQUIBB & SONS, INC) 3 June 1992 (1992-06-03) page 9, line 40 - line 42; claim 1; examples 1,2	1-55
X	EP 0 327 127 A (NISSAN CHEMICAL INDUSTRIES LTD) 9 August 1989 (1989-08-09) page 13, line 49; claim 1; examples 1-20	1-55
	-/--	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *G* document member of the same patent family

Date of the actual completion of the international search

8 August 2005

Date of mailing of the international search report

26 08. 2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 409 165 A (NISSAN CHEMICAL INDUSTRIES LTD) 23 January 1991 (1991-01-23) referential example 1-6, claim 1; example 1; tables 1,2	1-35, 49-51, 54,55
X	PATENT ABSTRACTS OF JAPAN vol. 014, no. 131 (C-0700), 13 March 1990 (1990-03-13) -& JP 02 004791 A (NISSAN CHEM IND LTD), 9 January 1990 (1990-01-09) abstract; claim 2; compounds 7,16	1-35, 49-51, 54,55
X	WO 95/34547 A (SMITHKLINE BEECHAM PLC; VONG, ANTONIO, KUOK, KEONG; THOMPSON, MERVYN;) 21 December 1995 (1995-12-21) claim 1; example 17	1-35, 37-48, 52,54,55
X	CHAN W N ET AL: "Conformational preference of the 6-acetyl group in novel anticonvulsant trans 4S-benzamido-benzo[b]pyran-3R-ols" BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, OXFORD, GB, vol. 7, no. 12, 17 June 1997 (1997-06-17), pages 1573-1576, XP004136259 ISSN: 0960-894X compounds 4,5,9	1-55

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2005/006004

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-35,49-51,54,55

compounds of formula (I) with $R_3=OH$ and A=5-membered ring

2. claims: 1-35,37-48,52,54,55

compounds of formula (I) with $R_3=OH$ and A=6- or 7-membered ring

3. claims: 1,2,54,55

compounds of formula (I) with $R_3=alkylcarbonyloxy$ and A=5-membered ring

4. claims: 1,2,54,55

compounds of formula (I) with $R_3=alkylcarbonyloxy$ and A=6- or 7-membered ring

5. claims: 1,2,54,55

compounds of formula (I) with $R_3+R_4=bond$

6. claims: 1-34,36-55

compounds of formula (II)

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP2005/006004

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INTERNATIONAL SEARCH REPORT

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